

# Jesse Eaton

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## Education

Carnegie Mellon	M.S. Computational Biology	2016 - 2018
Tufts University	B.S. Biomedical Engineering Minor in Computer Science 3.45 GPA (cum laude, dean's list)	2011 - 2015

## Work

MITRE (Full Time)	Software Systems Engineer in Department of Open Health Services	2015 - 2016
MITRE (Internship)	Software Engineer in Department of Operational Innovation and Transportation	2014
Autism Science Foundation	Web Programmer	2013

## Skills

Programming Languages	Go, C, C++, Matlab / Octave, Python, HTML, CSS, Javascript, Ruby + Rails, PHP Git, API Development, MongoDB
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## Courses

Computer, Math	Algorithms, Data Structures, Intro Machine Learning, Probability and Computing, Machine Structure and Assembly, Web Programming
Biology	Cell and Molecular Biology, Genetics, Medical Imaging, Tissue Engineering, Quantum Chemistry

## Research

Senior Research at Tufts University	Detection of Circulating Tumor Cells - 2015 <ul style="list-style-type: none"><li>Investigated effect of density separation on forward and side scattering of white blood cells and breast cancer cell line</li><li>Analyzed differences in backscattering between breast cancer cell line and populations of white blood cells</li></ul>
Junior Research at Tufts University	Cerebral Hemodynamic Oscillations - 2014 <ul style="list-style-type: none"><li>Investigated effects of changes in total hemoglobin levels in the brain to study different physiological parameters</li><li>Developed algorithms for determining the optimal occlusion time for a blood pressure cuff</li></ul>
Sophomore Research at Tufts University	Polarized Light for Laparoscopic Surgery - 2013 <ul style="list-style-type: none"><li>Designed mechanism for laparoscope using linearly polarized light to examine superficial tissue</li><li>Built detachable cap to polarize light at the distal end of the laparoscope</li></ul>